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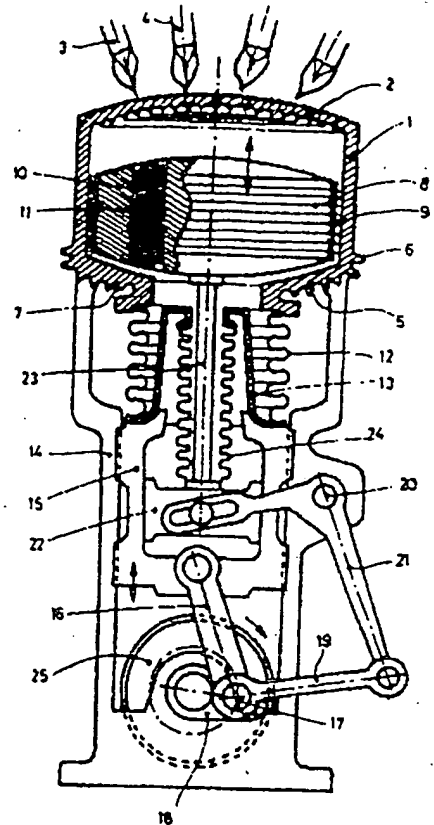
APPLICATION DATE : 09-09-78  
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TITLE : AIRTIGHT STIRLING ENGINE



ABSTRACT : PURPOSE: To improve an airtightness and the power by providing a durable wall for the revolving shaft and the communicating part with the power piston of Stirling engine to replace with a flexible material such as rubber.

CONSTITUTION: A displacer piston 8 is provided within the displacer cylinder 1 having a burner 3 on the upper part, cooling fins on the lower part. Besides, the lower part of cylinder 1 is provided with the main bellows 12 made of the flexible material joined with the cross head guided by the frame 14, in which the cap shape main bellows cover 13 is provided, thereby a conventional power piston is defined. Moreover, the airtight bellows 24 with a durable wall is provided between the cover 13 and the piston rod 23 to permit the inner piston to make a airtight condition. Thereby, the piston rod 23 is connected with the crank 18 by means of the cross head 15 and the connection rod 16.

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